

Maine Weekly Influenza Surveillance Report

May 7, 2019

For MMWR week 18 (ending 05/04/2019)

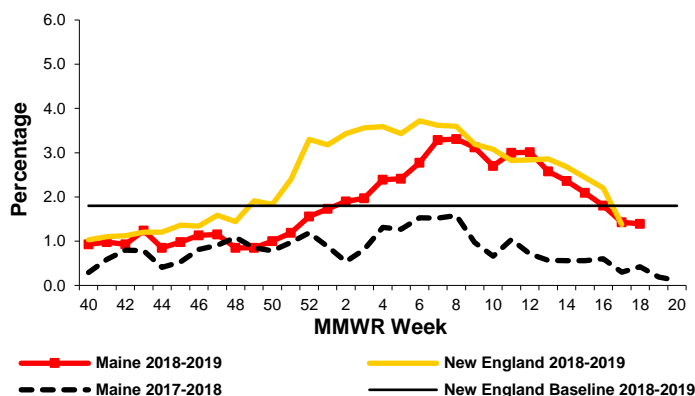


Federal Flu Code: Local

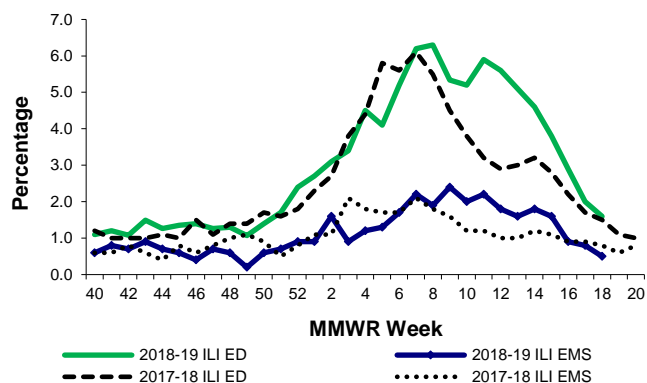
Surveillance Information – Maine, 2018-2019 Influenza Season

- Number of ILINet Providers reporting: 45
 - % of visits for Influenza-Like Illness (ILI): 1.39
- Syndromic Surveillance
 - % of Emergency Room visits for ILI: 1.6
 - % of Emergency Medical Services (EMS) runs for ILI: 0.5

Outpatient Visits for ILI – Maine, 2017-19



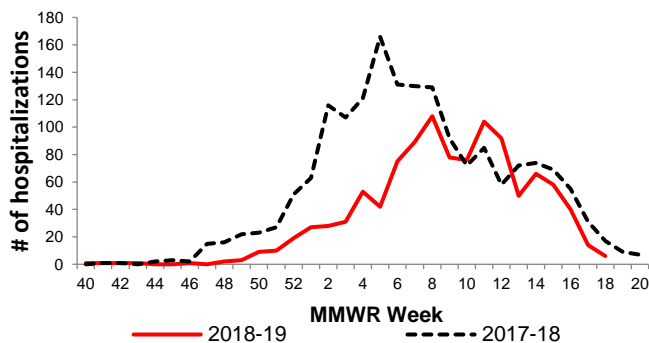
Syndromic Surveillance data for ILI – Maine, 2017 -19



Influenza Hospitalizations

- # of hospitalizations: 6

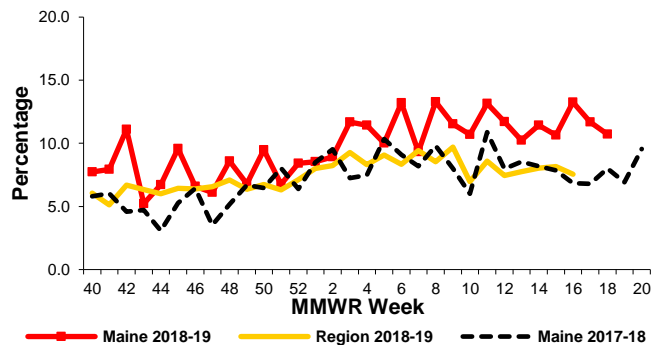
Influenza Hospitalizations – Maine, 2017-19



Pneumonia and Influenza (P&I) Deaths

- % of deaths due to P&I: 10.7
- # influenza deaths reported this week: 0
- Total influenza deaths this season: 48

Deaths Attributable to P&I – Maine, 2017-19

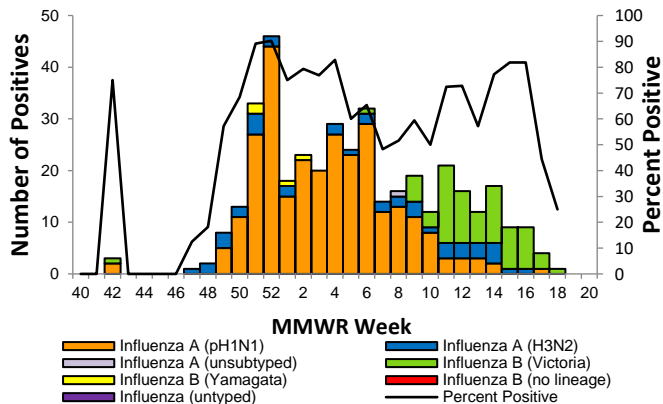


*This number represents the number of individuals who had influenza specifically listed on their death certificate. This is likely an underrepresentation of the true burden, as many influenza-associated deaths are due to secondary infections. This is why Maine CDC reports Pneumonia and Influenza (P&I) deaths.

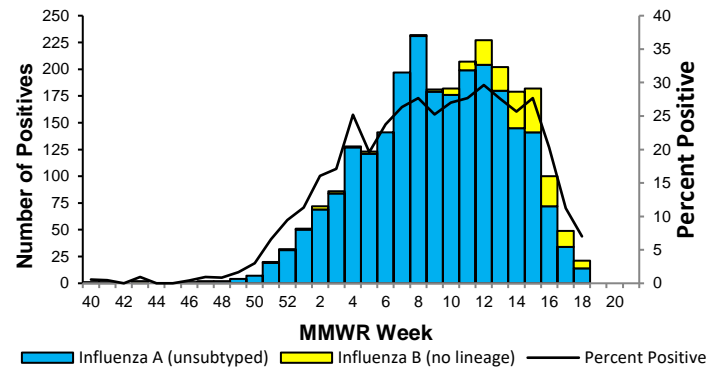
Lab Data – Maine, 2018-2019 Influenza Season

- # of samples tested at HETL: 4
 - # positive: 1
 - % positive: 25
- # of samples tested at Maine Reference Labs: 299
 - # positive: 21
 - % positive: 7
- # of samples positive by rapid antigen test: 38

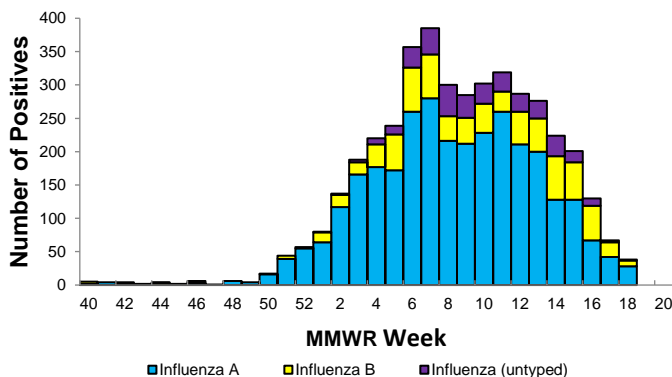
Positive PCR Samples for Influenza, HETL – Maine, 2018-19



Positive Samples for Influenza, Maine Reference Labs – Maine, 2018-19

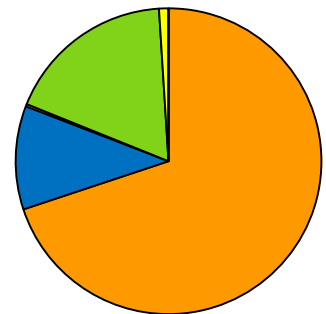


Positive Influenza Rapid Antigen Tests – Maine, 2018-19



Cumulative Influenza Positive Tests by Strain, HETL – Maine, 2018-19

- Influenza A (pH1N1)
- Influenza A (H3N2)
- Influenza A (unsubtyped)
- Influenza B (Victoria)
- Influenza B (Yamagata)
- Influenza B (no lineage)
- Influenza (untyped)



Antiviral Resistance – Maine, 2018-19 Influenza Season

- # of Influenza A (pH1N1) samples tested for Tamiflu resistance at HETL: 188
 - # with resistance: 0
- # of Influenza A (H3) samples tested for Tamiflu resistance at HETL: 13
 - # with resistance: 0

Pediatric Influenza Deaths

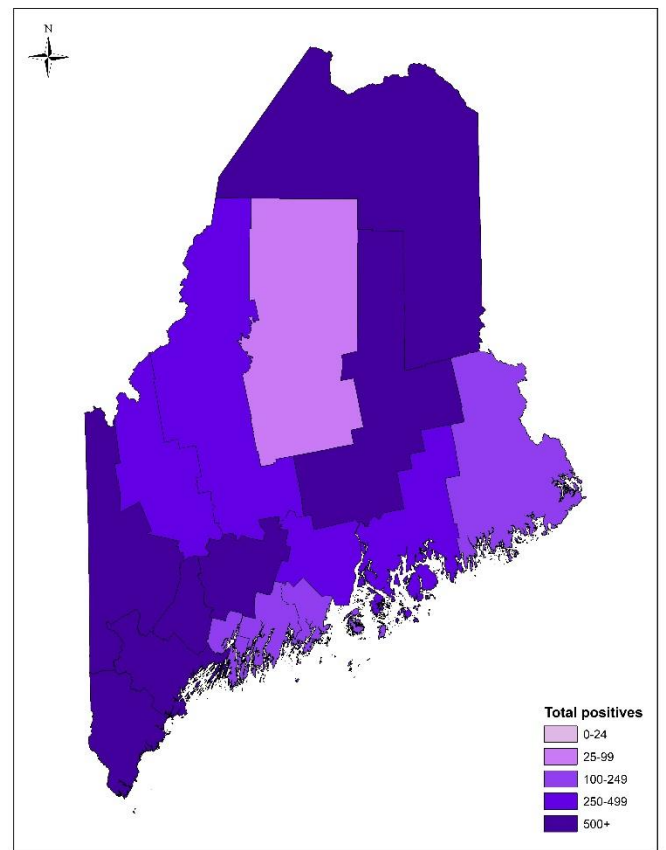
- One pediatric influenza-associated death reported during the 2018-19 influenza season in an unvaccinated child. This was confirmed as influenza A (H3N2).

Geographic Distribution of Lab Tests, Maine 2018-19*

County	Positive labs		Hospitalizations	
	Tested this week	Total	New this week	Total
Androscoggin	6	1374	0	95
Aroostook	19	729	3	35
Cumberland	10	1403	1	222
Franklin	1	314	0	61
Hancock	3	367	0	42
Kennebec	1	561	0	105
Knox	0	244	0	28
Lincoln	2	236	0	36
Oxford	3	559	0	71
Penobscot	9	1468	0	135
Piscataquis	0	61	0	9
Sagadahoc	5	186	1	48
Somerset	1	457	0	51
Waldo	4	275	1	17
Washington	0	152	0	18
York	11	1811	0	112
Total	75	10197	6	1085

*Only reported PCR, culture, and rapid antigen tests are included in the chart and map.

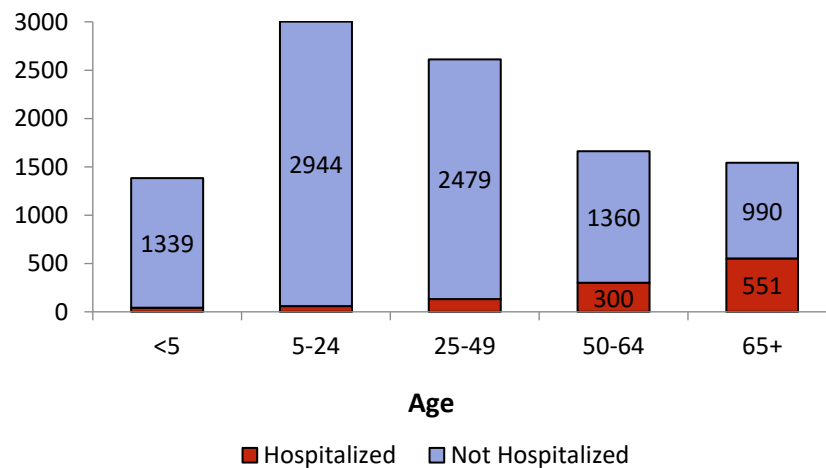
Positive Influenza Tests, Maine 2018-19



Age Information – Maine, 2018-19 Influenza Season

	Cases	Hospitalizations	Deaths
Minimum Age	2 days	2 days	Under 18 years
Mean Age	34 years	61 years	74 years
Maximum Age	102 years	102 years	98 years

Positive Influenza Tests by Age – Maine, 2018-19



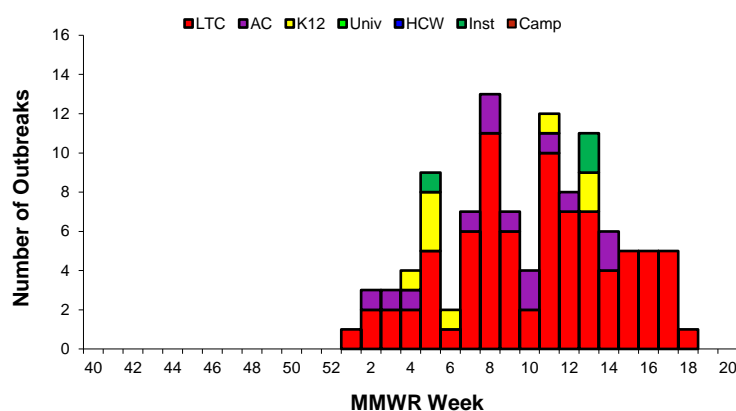
Antigenic Characterization (Vaccine Strain Match)

- Federal CDC has antigenically or genetically characterized 2266 influenza viruses from September 30– April 27, 2019.
 - 97% of influenza A/H1N1 samples match the vaccine strain
 - 44% of influenza A/H3N2 samples match the vaccine strain
 - 75.9% of influenza B/Victoria samples match the vaccine strain
 - 100% of influenza B/Yamagata samples match the vaccine strain
- Antigenic characterization shows if the circulating strains are the same strains that were used to make the vaccine. This does not tell you how effective the vaccine is at creating an immune response. For current vaccine effectiveness rates visit <https://www.cdc.gov/mmwr/volumes/68/wr/mm6806a2.htm>.

Influenza-Like Illness Outbreaks – Maine, 2018-19 Influenza Season

- # new outbreaks: 1
- Total outbreaks 2018-19 season: 106

Influenza-Like Illness Outbreaks by Facility Type – Maine, 2018-19



Outbreak Facility Type Key:

LTC - Long Term Care Facility
 AC - Acute Care Facility (nosocomial)
 K12 - School (K-12) or daycare
 Univ - School (residential) or University
 HCW - Health care workers
 Inst - Other institutions (workplaces, correctional facilities etc)
 Camp - Camp

Influenza-Like Illness Outbreak by Facility Type and County – Maine, 2018-19

County	LTC	AC	K12	Univ	HCW	Inst	Camp	Total
Androscoggin	8	3	0	0	0	0	0	11
Aroostook	12	0	0	0	0	0	0	12
Cumberland	23	2	1	0	0	2	0	28
Franklin	3	0	0	0	0	0	0	3
Hancock	1	1	0	0	0	0	0	2
Kennebec	6	4	0	0	0	0	0	10
Knox	4	0	0	0	0	1	0	5
Lincoln	0	0	0	0	0	0	0	0
Oxford	3	0	0	0	0	0	0	3
Penobscot	8	2	1	0	0	0	0	11
Piscataquis	1	0	0	0	0	0	0	1
Sagadahoc	0	0	1	0	0	0	0	1
Somerset	4	0	0	0	0	0	0	4
Waldo	0	0	1	0	0	0	0	1
Washington	0	0	0	0	0	0	0	0
York	9	1	4	0	0	0	0	14
Total	82	13	8	0	0	3	0	106

Source: <https://www.cdc.gov/flu/weekly/>



Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists*

Week Ending Apr 27, 2019 - Week 17



A Weekly Influenza Surveillance Report Prepared by the Influenza Division
Influenza-Like Illness (ILI) Activity Level Indicator Determined by Data Reported to ILINet



2018-19 Influenza Season Week 17 ending Apr 27, 2019

